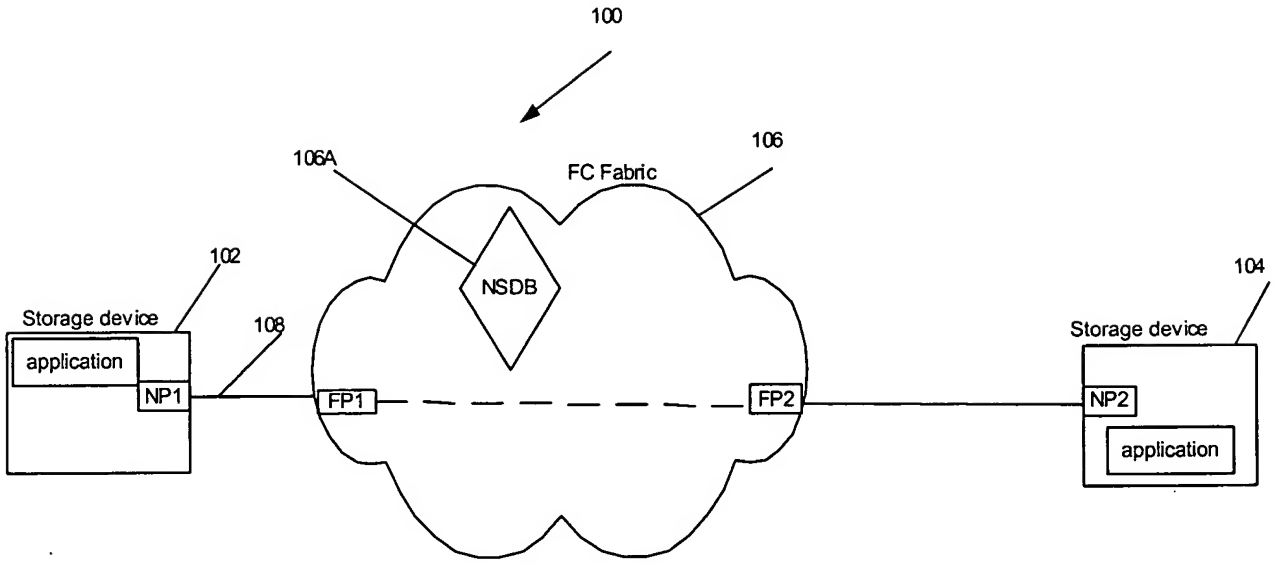

100
106A
FC Fabric
106
102
NSDB
104
Storage device
108
Storage device
application
NP1
FP1
FP2
NP2
application

FIGURE 1

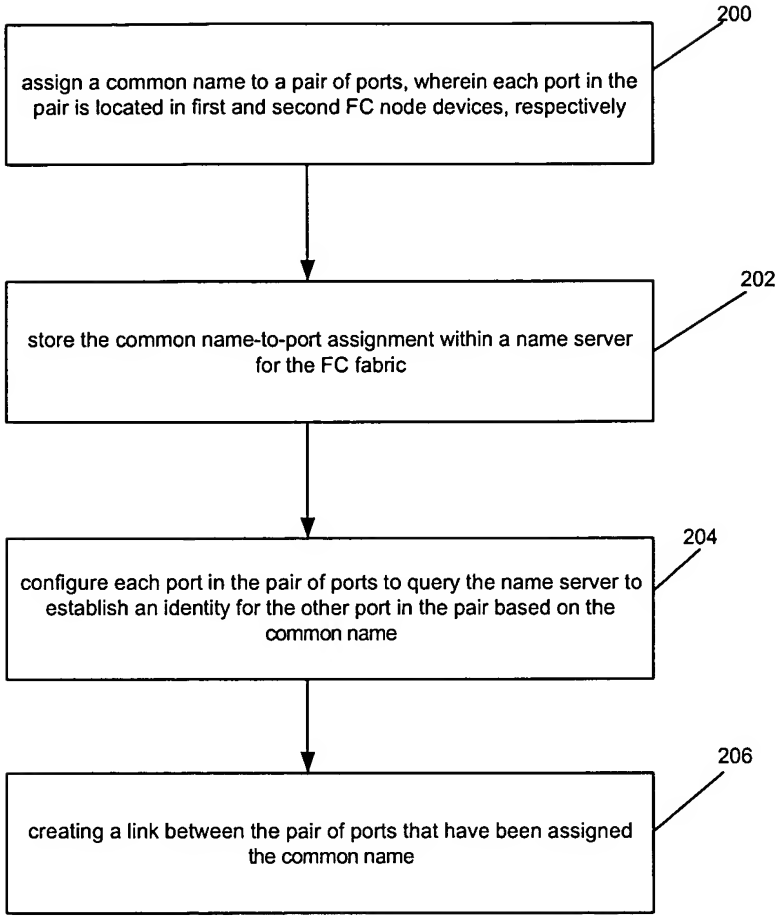
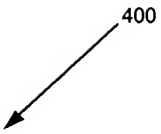

200
assign a common name to a pair of ports, wherein each port in the pair is located in first and second FC node devices, respectively
202
store the common name-to-port assignment within a name server for the FC fabric
204
configure each port in the pair of ports to query the name server to establish an identity for the other port in the pair based on the common name
206
creating a link between the pair of ports that have been assigned the common name

FIGURE 2

Byte Number	Information Stored
1	version number
2-21	port type
22-23	slot number
24-25	subslot number
26-255	unused

FIGURE 3



FC Commands

Register FC-4 Types (RFT_ID)	Request to the Name Server to register protocols supported by the given port ID
Register Symbolic Port Name (RSPN_ID)	Request to the Name Server to associate a Symbolic Port Name with a given Port Identifier
Get Symbolic Port Name (GSPN_ID)	Query/request to the Name Server which when received by the Name Server causes the Name Server to return the registered Symbolic Port Name for the specified Port Identifier
Get Port Identifier(GID_FT)	Query/request to the Name Server which when received by the Name Server causes the Name Server to return the Port Identifiers that support the FCVI protocol

FIGURE 4

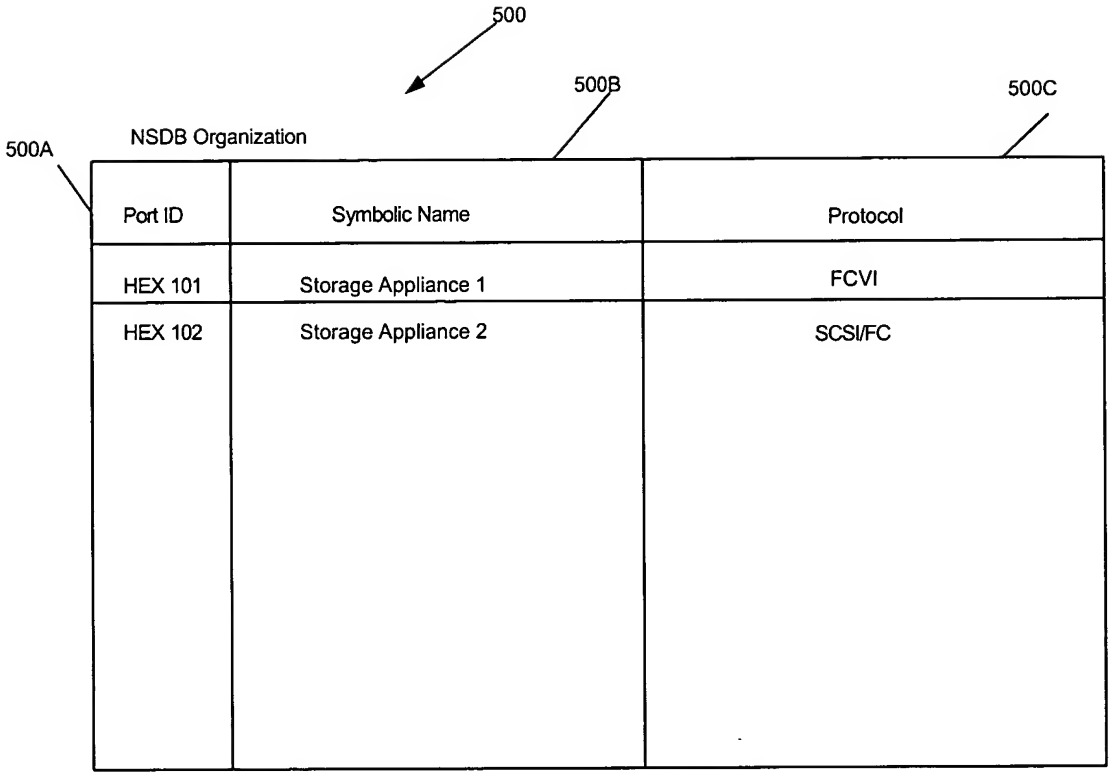

500
500B
500C
500A
NSDB Organization
Port ID
Symbolic Name
Protocol
HEX 101
Storage Appliance 1
FCVI
HEX 102
Storage Appliance 2
SCSI/FC

FIGURE 5

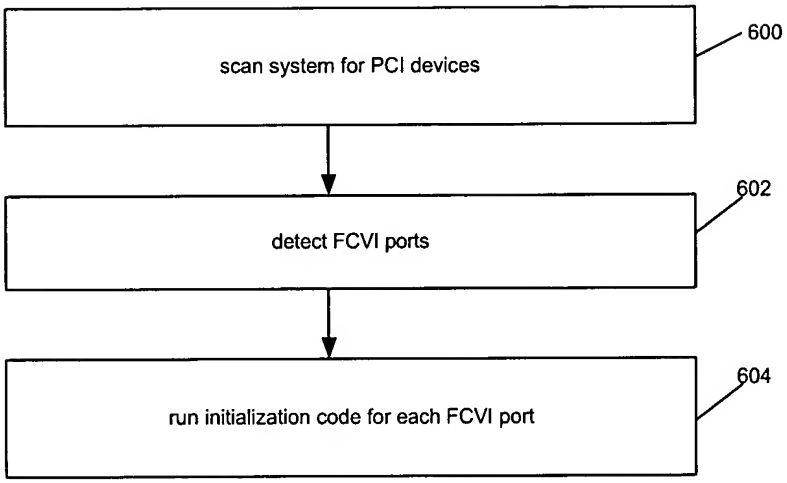

scan system for PCI devices
600
detect FCVI ports
602
run initialization code for each FCVI port
604

FIGURE 6

REGISTRATION PROCEDURE

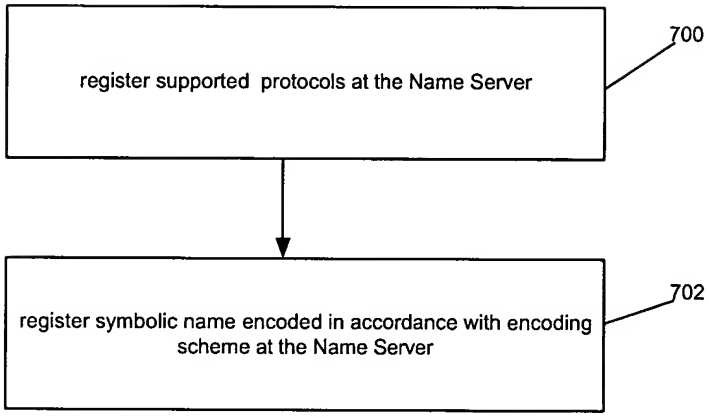


FIGURE 7

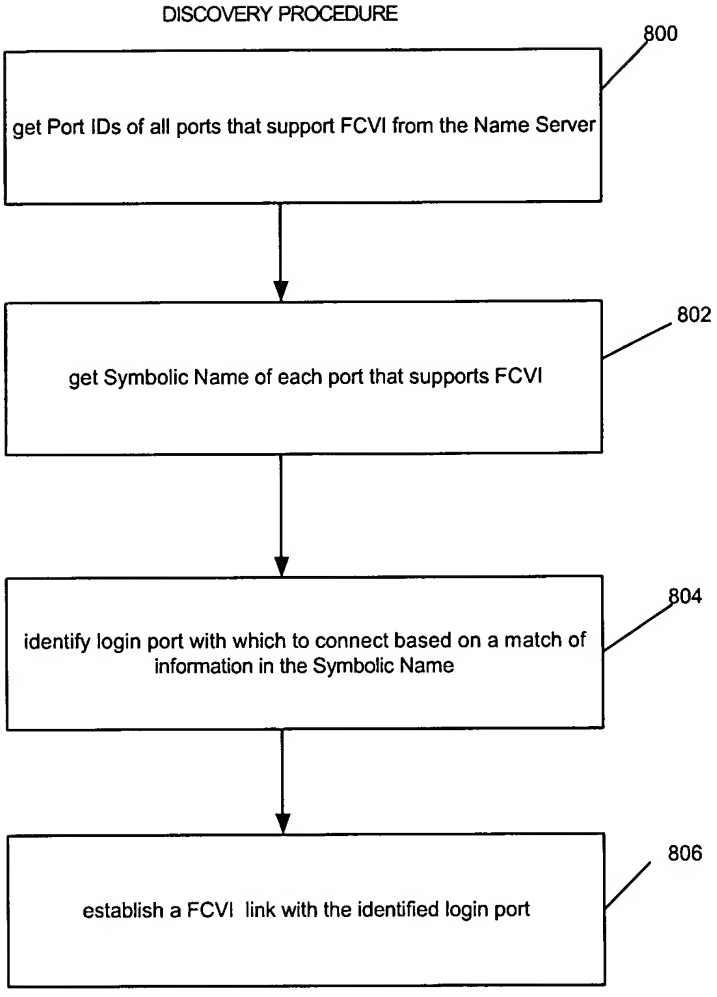

DISCOVERY PROCEDURE
800
get Port IDs of all ports that support FCVI from the Name Server
802
get Symbolic Name of each port that supports FCVI
804
identify login port with which to connect based on a match of information in the Symbolic Name
806
establish a FCVI link with the identified login port

FIGURE 8

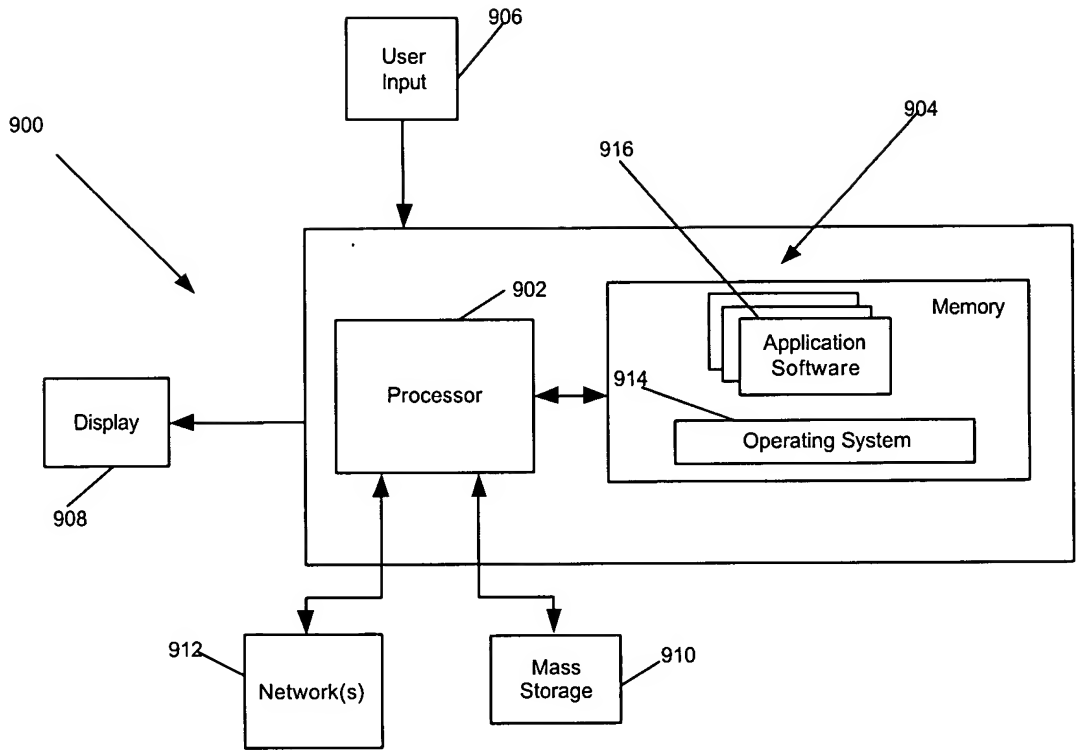

906
User Input
900
904
916
902
Memory
Application Software
Processor
914
Display
Operating System
908
912
Network(s)
Mass Storage
910

FIGURE 9